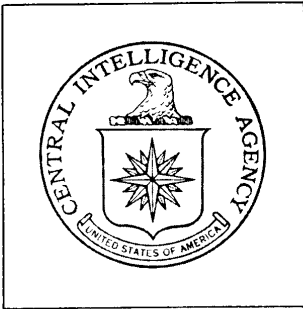


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DIRECTORATE OF
INTELLIGENCE

**Ground Weapons and
Weapon Systems, USSR**

Basic Imagery Interpretation Report

**Engineering Dimensions
of the SA-3 GOA Missile**

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DATE October 1970

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CENTRAL INTELLIGENCE AGENCY
Directorate of Intelligence
Imagery Analysis Service

INSTALLATION OR ACTIVITY NAME Engineering Dimensions of the SA-3 GOA Missile					COUNTRY UR	
UTM COORDINATES NA	GEOGRAPHIC COORDINATES NA		BE NUMBER NA	COMIREX NO. NA	NIETB NO. NA	25X1
MAP REFERENCE NA						
LATEST IMAGERY USED Moscow Parade Photography, November 1969				NEGATION DATE (If required) NA		

ABSTRACT

This report presents detailed engineering dimensions of the SA-3 GOA surface-to-air missile. The dimensions were derived from photography of the missile in the Moscow parades. Because of the advanced mensuration techniques used, the dimensions in this report are considered to be more accurate than any previously obtained for the SA-3 missile.

INTRODUCTION

The dimensions for the SA-3 provided in this report are shown on engineering drawings of the missile and missile components. Figure 1 provides selected photographic views of the missile. Overall dimensions are shown in Figures 2 and 3 and dimensions of the individual components of the missile are in Figures 4-10.

All mensuration in this report was performed by the NPIC Photogrammetry Division using the Moscow Metrical Trap and NPIC's Resection, Motion, and Shape reduction programs.

Linear dimensions shown are considered accurate to within plus or minus two percent or 0.05 feet, whichever is greater. Angular measurements are considered accurate to within plus or minus one degree.

NOTE: This report is published as an interim Basic Imagery Interpretation Report with concurrence of the USAIIC.

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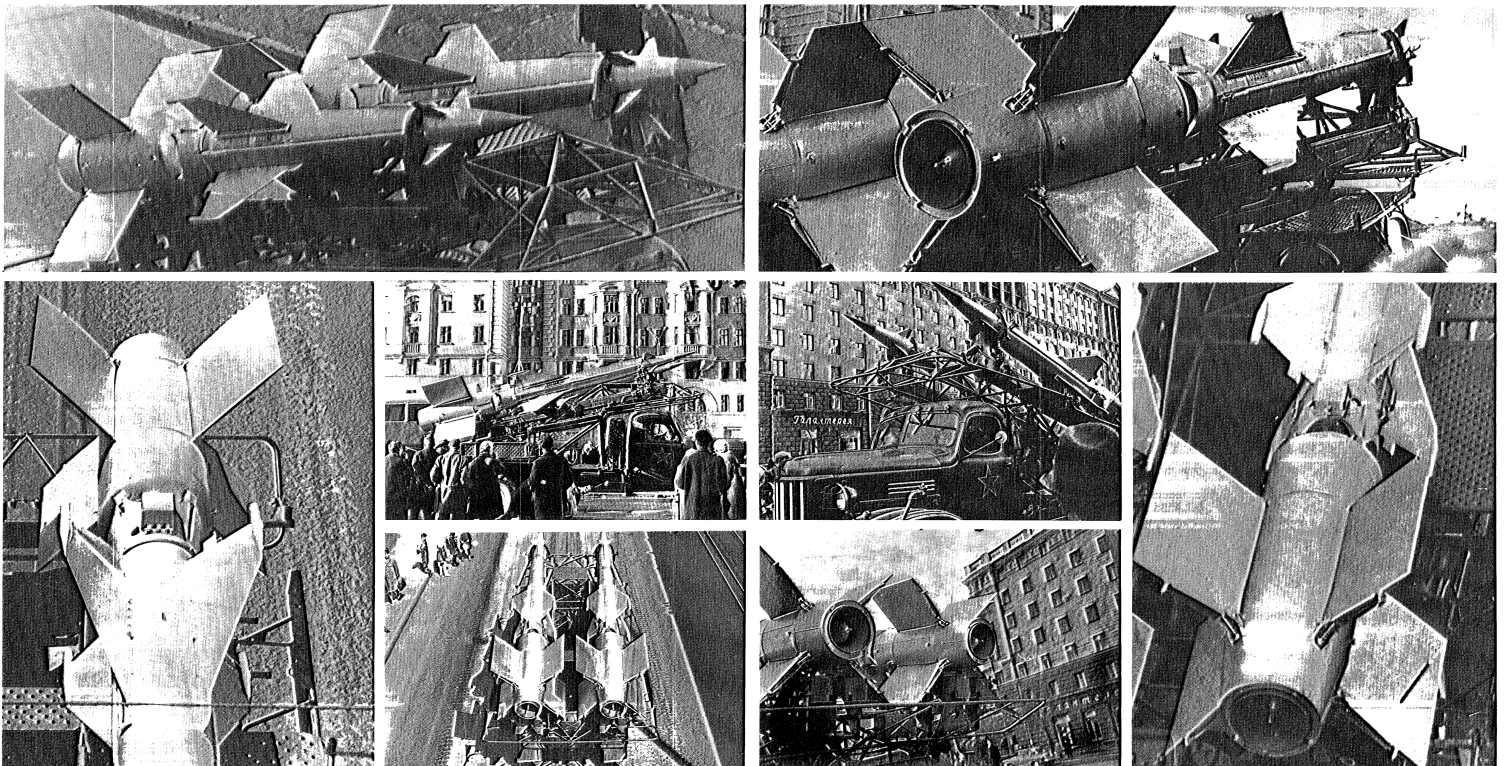


FIGURE 1. SELECTED VIEWS OF THE GOA MISSILE, MOSCOW PARADE PHOTOGRAPHY.

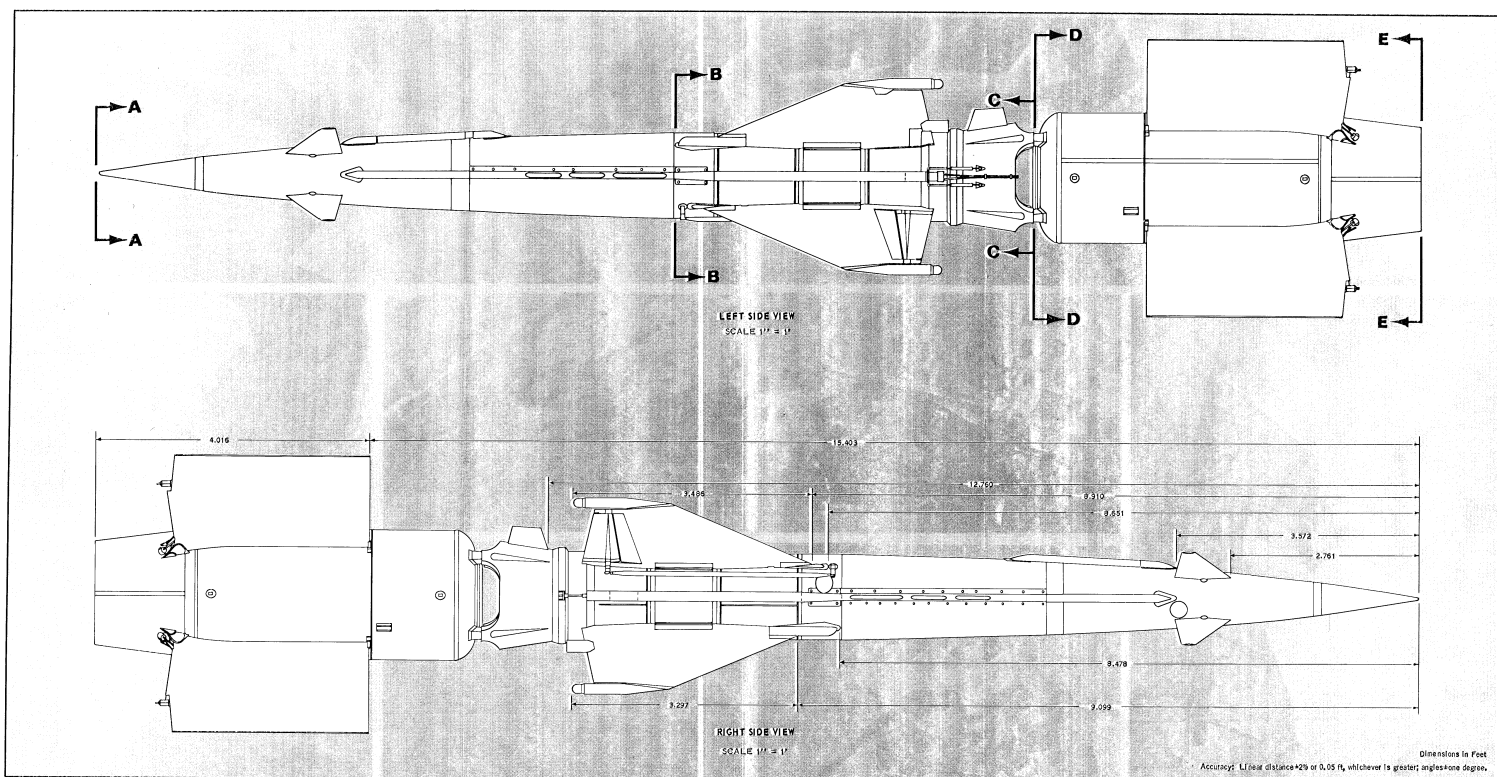


FIGURE 2. GDA MISSILE, LEFT AND RIGHT SIDES.

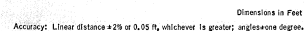


FIGURE 3. GOA MISSILE. TOP VIEW AND MISSILE BODY DIMENSIONS.

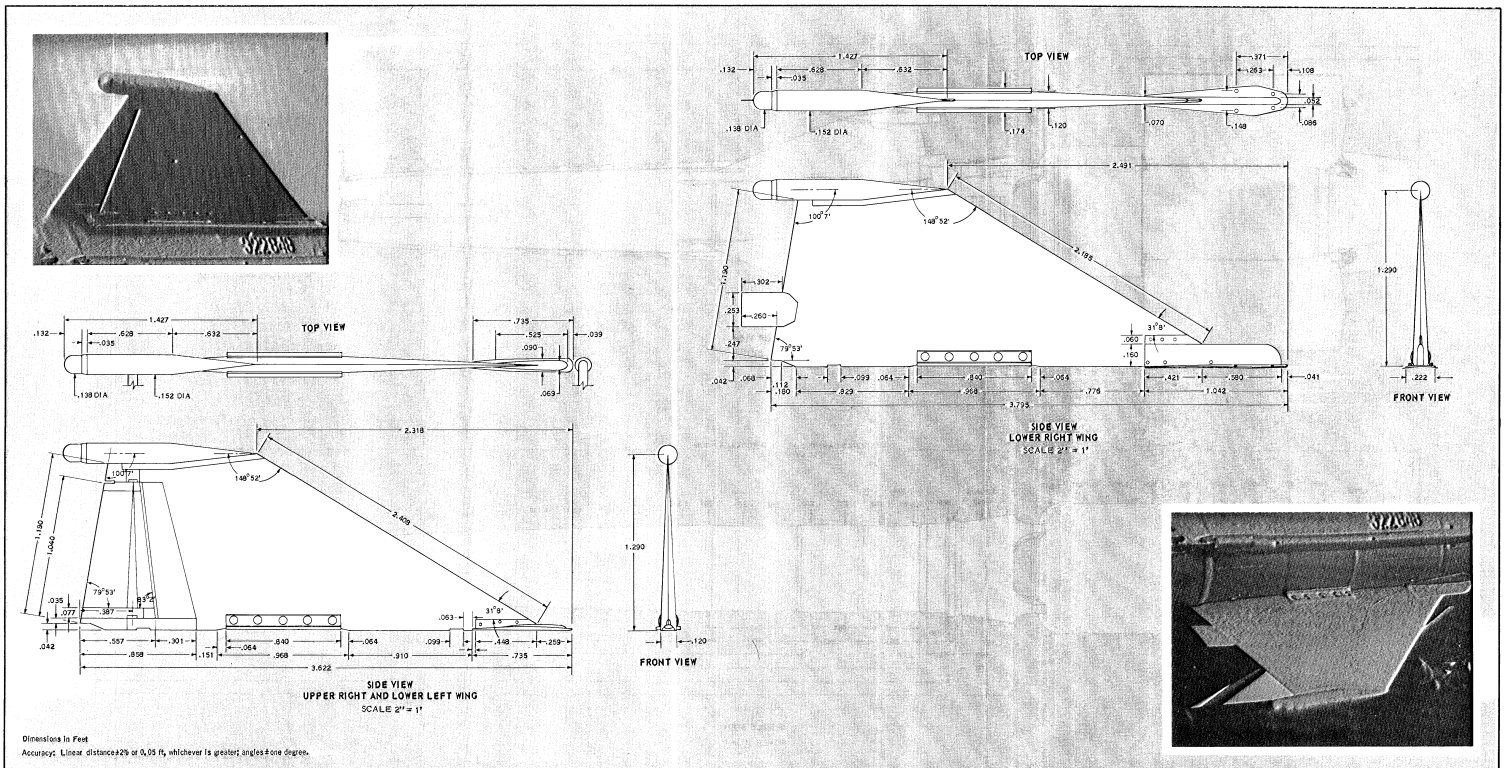
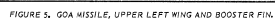


FIGURE 4. GOA MISSILE, UPPER RIGHT, LOWER LEFT AND LOWER RIGHT WINGS.



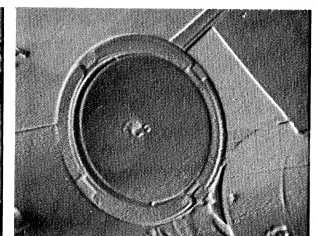
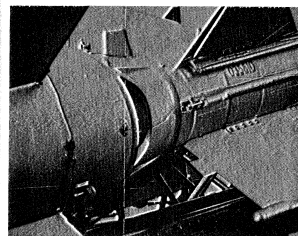
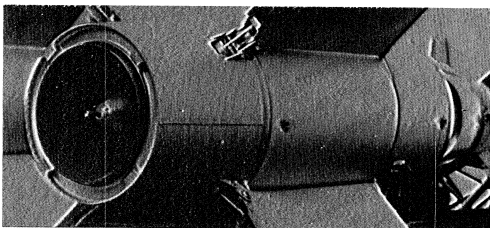
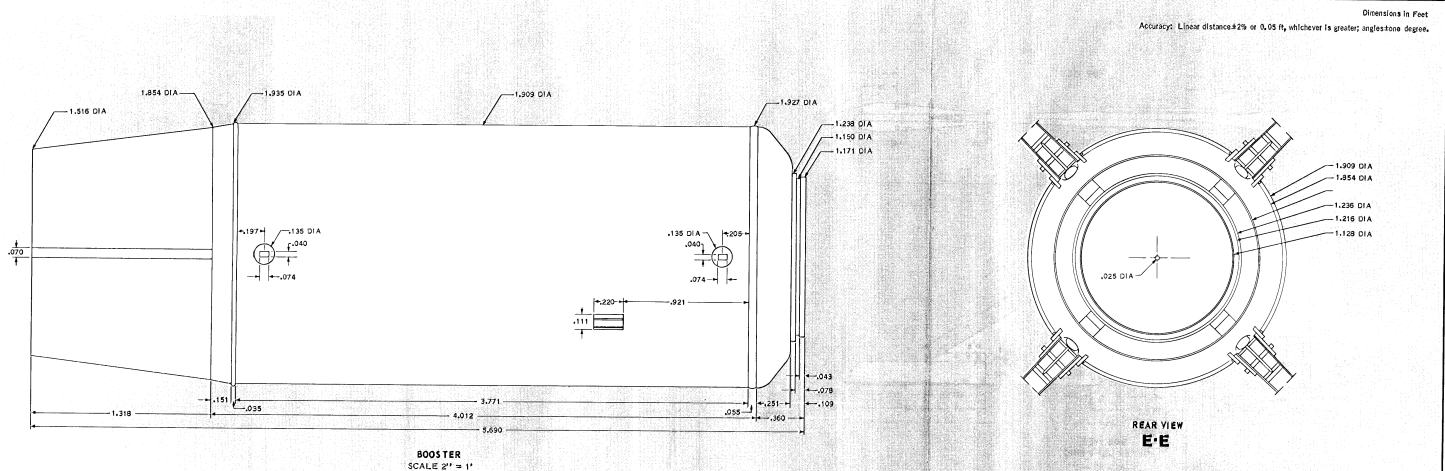


FIGURE 6. GOA MISSILE, BOOSTER AND REAR VIEW E-E.

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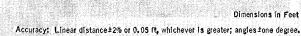


FIGURE 7. GOA MISSILE, SECTIONAL VIEWS A-A, B-B AND C-C.

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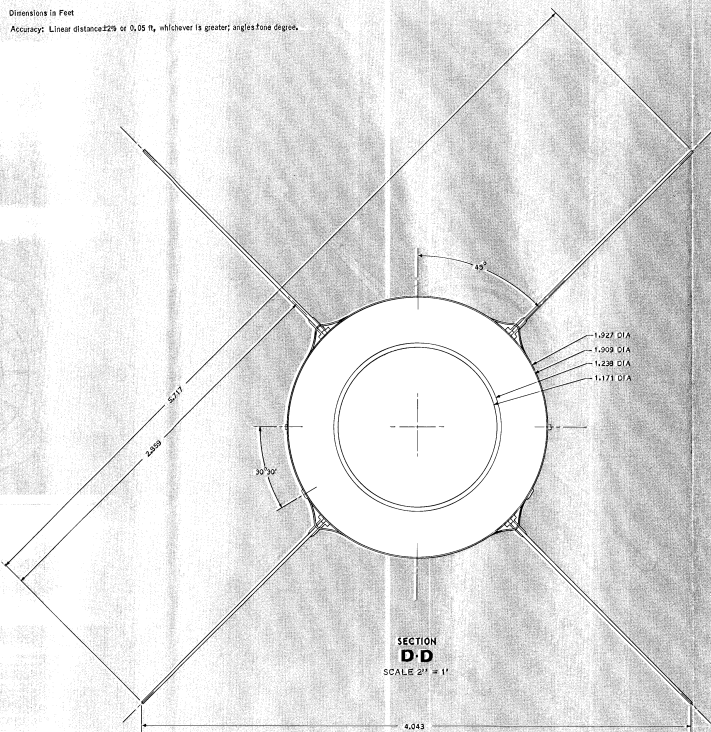


FIGURE 8. GOA MISSILE, SECTIONAL VIEW D-D.

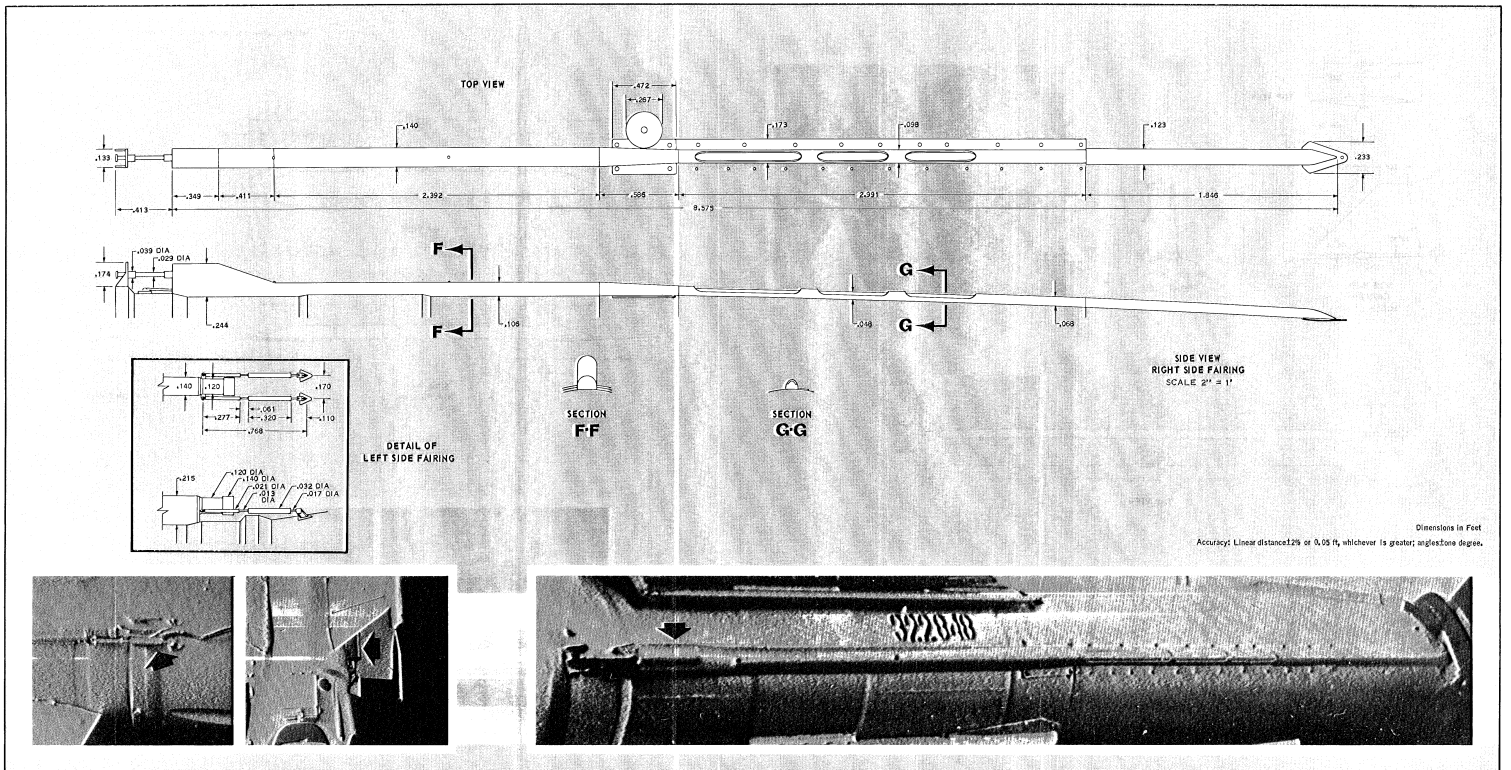


FIGURE 9. GOA MISSILE, RIGHT SIDE FAIRING AND DETAIL OF LEFT SIDE FAIRING.

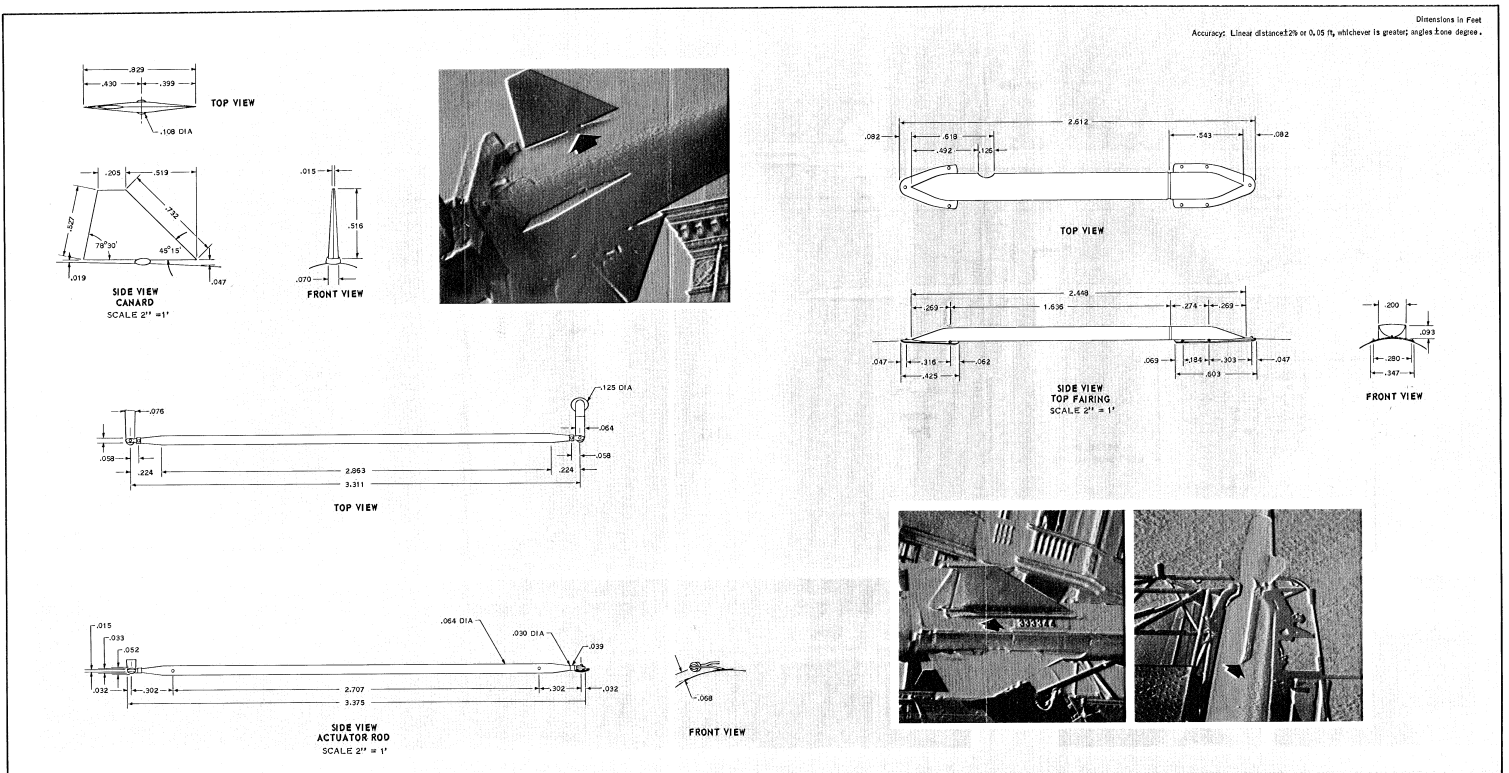


FIGURE 10. GOA MISSILE, CANARD, TOP PAIRING AND ACTUATOR ROD.

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REFERENCES

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Requirement

C-S19-85,946

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